

# ARA CHENUR

OUR SIXTY FIRST YEAR

Mike Williams K9QHO

Wm. Lueth W9AI  
Publisher

MEETINGS: 2nd and 4th Fridays of each Month.  
222 S. Downey Ave.  
United Christian Missions Bldg. 8:00 P. M.

Newsletter #9  
November 1976

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NEXT MEETING: November 12th. 1976 -- Awards of Appreciation Banquet 7:00 P. M. "Heritage House" U. S. 31 And Thompson Rd.

The 9th Annual Awards of Appreciation Banquet will be held at the same place as in previous years. The Heritage House U. S. 31 and Thompson Rd. Members and Guests will assemble and get acquainted at 7:00 PM. Serving will begin at 7:30 PM. To date, we have about 50 reservations. If you are planning to attend and have not made your reservation, please do so at once by calling Mrs. Mike Williams at 846-6051. Reservation deadline is Wednesday evening Nov. 10th. ALL YOU CAN EAT and a fine program presented by Jack McNutt, titled "French Islands" St. Pierre and Miquelon, will make this a gala evening. Fee \$5.00 per person, collected as you enter.

ELECTION OF OFFICERS will be coming up on December 10th.--so be thinking about who will be your choice of club officers for 1977. Pres. Bill Johnson will appoint a nominating committee who will draw up a slate of officers. Any 5 members in good standing may present other slates, which must be in the hands of the Secretary at least five days before the election on December 10th. The next newsletter will contain a complete membership list for the year 1976 from which you can make your selection of officers.

HAM POPULATION IN U.S.A. Our numbers are growing, In July 1976 we jumped from 271,000 to 275,000 licensed hams, of the increase 2000 new novices were added to a total of 30,000 and 1000 new Technicians. The balance were higher grade licenses. We congratulate the Red Cross Radio Club and Purdue University, Indpls Campus for their fine work in providing code classes and instruction leading to the FCC license.

10-4 The magazine racks now carry at least 15 publications devoted to CB, with more new ones appearing almost monthly. Many of these journals are making a vain effort to educate the reader in the state of the art and carry digestible articles on SSB, Antennas, measurements and synthesizers, some written by Hams. Good operating practice is also being stressed, plus FCC regulations and violations. We applaud the efforts being made by these publishers to upgrade and enhance the CB Service.

PROGRAM REVIEW Members at the October 8th meeting heard Mike Williams, K9QHO tell us all about RTTY. Mike got bit by the RTTY bug while operating RTTY at a friends shack. He designed his own system keeping it Ready, Quick Cheap and Simple. No sophisticated electronic types which cost a bundle are needed to get into RTTY. The basic unit is a Model 15 Teletype machine, it is rugged, low cost, but a bit noisy, you can pick them up readily at ham-fests. They come in two types Tape Print and Page Print, The later is the better and preferred type. Make sure the motor is a 60 cycle AC Synch type. Stay away from other types of motors which require a tuning fork to set the correct speed. Refer to ARRL's publications on RTTY under title SPECIALIZED COMMUNICATIONS TECHNIQUES.



In RTTY, logic for the coding is done with two states called MARK-SPACE, ie, current-no current. Machines are regulated in synch by a Range Selector which looks at the pulses for a brief moment and corrects any drift due to static or noise on the lines. Since we have to send signals by radio modulated equipment, we have to send audio tones at two different freqs. to make the mark-space coded. This is called Audio Freq shift keying, ie, AFSK. The receiver takes these two audio tones thru a discriminator and makes a DC pulse at mark and space voltage levels which in turn controls the RTTY machine via its Loop circuit. Much information can be had from the RTTY JOURNAL published monthly. We all thank Mike for an excellent and definitive program.

PROGRAM REVIEW: -- October 22nd. Art Schultz W9BR presented a program on Digital Counting. Over 90% of current articles and ads in Amateur magazines are involved in digital programing of some sort or other and applications seem to be endless. Digital computations are based on the Binary system of numbers in which only the numerals 1 and zero are known. Counting is done in this system in Binary Coded decimals, ie, BCD and pass thru a Latch which holds and passes the quantities on to a Decode/Driver unit which changes the numbers back from Binary to Decimal and presents these on a display consisting of a 7 bar Light Emitting diode arranged in a figure 8. By turning certain bars ON, any numeral from zero thru 9 can be presented. Besides freq counters, these circuits with modifications can be made to provide Digital voltmeters, ID reminders, 12 or 24 hour digital clocks, translate RTTY Baudot to ASCII, Video Terminal interface units, Keyers, Program memory, Multi-track scope adaptors etc. We are looking forward to the wonders of the fifth generation computers now coming up. Thanks Art, for another of your fine informative programs.

SUNSPOTS -- The current solar cycle #20 is officially expected by Govt. experts to bottom out early next spring. The sunspot upswing following this should be evident by midsummer with improvement more rapid thereafter. For this winter do your DXing on the long waves.

ATV CONVERTERS The Amateur TV Club is in the process of ordering a number of the popular Blonder-Tongue UHF converters. With simple modifications these converters are considered the tops for Amateur TV reception, and a quick and easy way to break into the ATV phase of Amateur operations. All you need to look-in is a B-T converter, TV set tuned to Ch 2 and a fairly good 436 Mhz antenna. Price about \$30.00 plus tax. Make your wants known to Bill Lueth W9AI who will have a supply of said converters, pending shipment from the factory. The local TV gang operates on Sunday evenings 7 to 10:30 PM. 436 Mhz video and 147.3 Audio. Tune in it's great fun,

FOR SALE Hallicrafter 2 meter Transceiver Model SR-42, Hallicrafter 6 meter transceiver Model SR-46A. Hallicrafter VFO Mod HA-26, Cush-Craft Ringo Ant 2 mtr., Cush-Craft Trik-Stick 6 meter Ant. 100 ft. Coax. Worth \$250 will take \$150 or make offer.

Dayrad-All wave Signal Generator Series 36, 1 to 60 Mhz and 50 to 1700 Khz. \$15.00 Heathkit Battery eliminator BE-2-\$20 Jackson tube tester Mod 634 --\$25.00

Contact Ernie Schnipple, Retired Fireman, Tel 784-7498, QTH at 3524 S. Penn St.



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Art Schultz Editor. 235-6657

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Newsletter #10  
November 1976.

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MEETING: November 26, 1976.

TO BE ANNOUNCED.

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ELECTION : The next big thing coming before the club, is the election of 1977 officers. Election night is December 10th. The nominating committee has been appointed, and are now in the process of putting together a slate of officers for 1977. You as individuals, with the aid of the enclosed membership list can work up a slate to compete with the nominating committee's slate. So get busy and let's have a little competition in this election.

## AWARDS BANQUET

Fifty members and guests gathered at the Heritage House on November 12th to eat and honor the 1976 Awards of Appreciation winner (Mike Williams K9QHO) The selection of this years winner was a landslide as three fourths of the letters received were for the same person, thus the committee's selection had it's decision ready made. Probably the best tribute came from a nomination letter saying, I feel that \_\_\_\_\_ should be considered for the award because of his willingness to co-operate with all club activities in the best interest of the club. The 1976 Award of Appreciation is presented this year to a novice who was never on the air. -- Who in 1973 went from Technician to Advance class license all in one step by taking both exams and passing both successfully. He has given several programs before the club, always volunteering to accept work, especially taking care of reservations for special club meetings. He usually attends most hamfests and likes camping out. He has served as director of the Indianapolis radio club, and also 2 years as Editor of the Club Paper. He and one of his close friends are quite active at the Blind School, putting on Code Classes and Theory for the students, which was started a long time ago by Alvey, Caskey and many others who pitched in to help. He works for the National Cash Register Co. as a service-Technician on some of the latest digital equipment. Bob Osterhaus last years winner made the presentation of the plaque to Mike Williams K9QHO. CONGRATS Mike , from all of us, It could'nt happen to a nicer guy.

During the evening, Bill Lueth W9AI presented to the club, a very handsome Life Membership Plaque listing all the Life Members. A nice addition to the club room furnishings. We also gained another Life Member during the meeting, non-Other than John S. Jacobs WB9KSZ making a total of 9 Life Members to date. We were entertained by Jack McNutt K9OTB with a slide picture tour of the French Islands of St. Pierre & Miquelon. We gained an insight into the people and living conditions on the islands, their work and industries, and became acquainted with the ham operators and DX conditions, a most interesting and informative program. THANKS Jack for a top notch program and presentation.

73's BR/AI